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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,678	07/07/2006	Pieter Jan Sonneveld	207,690	6536

7590 08/19/2009
ABELMAN, FRAYNE & SCHWAB
666 Third Avenue, 10th floor
New York, NY 10017-5621

EXAMINER

SOHN, SEUNG C

ART UNIT	PAPER NUMBER
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2878

MAIL DATE	DELIVERY MODE
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08/19/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/585,678	Applicant(s) SONNEVELD, PIETER JAN	
	Examiner SEUNG C. SOHN	Art Unit 2878	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 35-68 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 35-68 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. *Claims 35-68 are rejected under 35 U.S.C. 102(b) as being anticipated by Blieske et al. (Patent App. Pub. No. US 2005/0039788 A1).*

Regarding claims 35 and 62-68, Blieske et al. discloses a cover for an object using solar radiation, wherein the cover comprises a cover sheet made of a material transparent to solar radiation; wherein, viewed in cross-sectional view with respect to the sheet, the sheet has a zigzag profiled surface structure on either side; and wherein the distance between two neighboring peaks of the zigzag surface structure is L and the thickness of the sheet is D; and wherein $L < 0.25D$.

Regarding claims 36-40, Blieske et al. discloses that the flanks of the zigzag surface structure run at an angle β with respect to the plane of the sheet; and wherein for the range of $\beta = 49^\circ \pm 1^\circ$.

Regarding claims 41-46, Blieske et al. discloses that the distance between two neighboring peaks of the zigzag surface structure is L; and wherein for the range of L: $20 \text{ um} \leq L \leq 200 \text{ um}$.

Regarding claim 47, Blieske et al. discloses that the zigzag surface structure has a different value for L on the one side than the other side.

Regarding claim 48, Blieske et al. discloses that the thickness of the sheet is D; and wherein $20 \mu\text{m} \leq D \leq 12 \text{ mm}$.

Regarding claim 49, Blieske et al. discloses that $L < 0.1 D$.

Regarding claim 50, Blieske et al. discloses that the flanks of the zigzag profiled surface structure that terminate at the same peak intersect one another at said peak.

Regarding claim 51, Blieske et al. discloses that the zigzag surface structure includes a multiplicity of grooves parallel to one another.

Regarding claim 52, Blieske et al. discloses that the zigzag surface structure includes a multiplicity of pyramid-shaped elevations.

Regarding claim 53, Blieske et al. discloses that the base plane of each of the pyramid-shaped elevations or depressions runs in the direction in which the transparent sheet extends; and wherein said base plane has a 3-cornered, 4-cornered, 6-cornered, or 8-cornered shape or includes a combination of 4-cornered and 8-cornered base planes.

Regarding claim 54, Blieske et al. discloses that the 3-cornered, 4-cornered, 6-cornered, or 8-cornered base plane or the combination of 4-cornered and 8-cornered base planes is shaped such that the pyramid-shaped elevations or, alternatively, depressions essentially fill the entire surface, or at least a surface zone, of the transparent sheet.

Regarding claim 55, Blieske et al. discloses that the cover sheet is flat or at least contains flat segments.

Regarding claim 56, Blieske et al. discloses that the cover sheet is at least partially curved.

Regarding claim 57, Blieske et al. discloses that the curvature is arc-shaped; and wherein said curvature preferably extends over 150.degree. to 180.degree..

Regarding claim 58, Blieske et al. discloses that the cover sheet, or at least segments thereof, is arranged at an angle and wherein the zigzag surface structure is made such that this drains along the slope.

Regarding claim 59, Blieske et al. discloses that the cover sheet is a glass cover sheet containing silicon dioxide.

Regarding claim 60, Blieske et al. discloses that the cover sheet is made of a plastic selected from the group consisting of PMMA plastic, PC plastic, or PET-G plastic.

Regarding claim 61, Blieske et al. discloses that the cover plates of each of the covers are above one another to run parallel to one another.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEUNG C. SOHN whose telephone number is (571)272-4123. The examiner can normally be reached on Mon-Thur, 7:30 AM -6 PM.

Art Unit: 2878

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, GEORGIA Y. EPPS can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SEUNG C SOHN/

Primary Examiner, Art Unit 2878